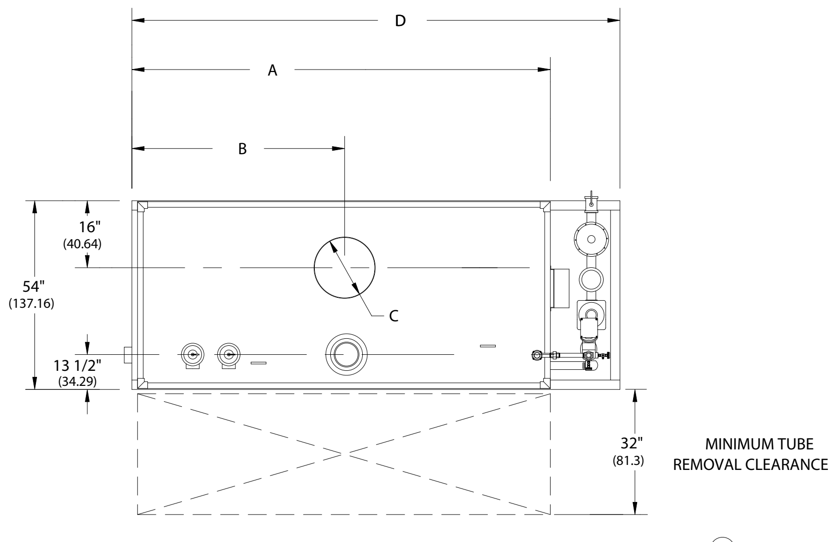
K SERIES ATMOSPHERIC GAS 15# & 150#
STEAM BOILERS (K350-K650)

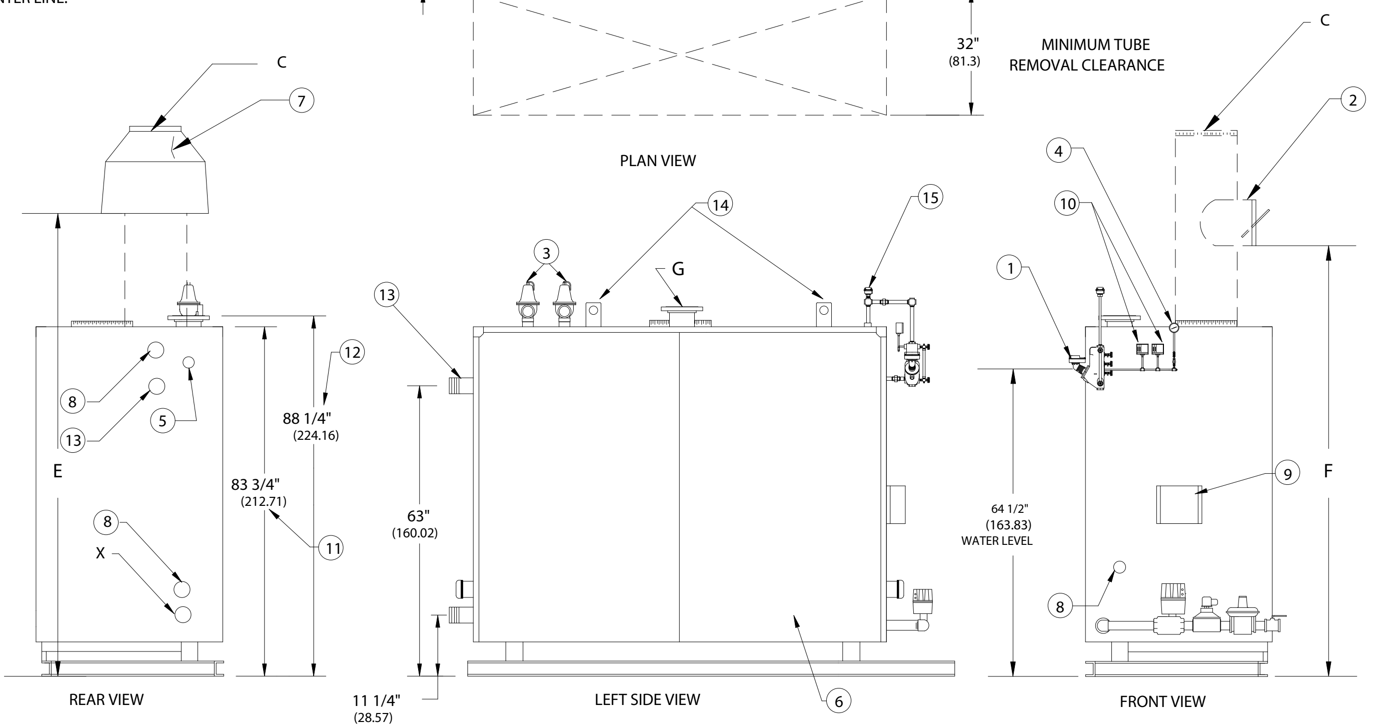
EFFECTIVE DATE: 05/05/03
REPLACES: 02/15/02

NOTES:

1. ALL DIMENSIONS ARE IN INCHES THOSE IN PARENTHESES ARE CENTIMETERS.
2. LOCATION DIMENSIONS ARE ALL ±1/2".
3. GAS TRAIN AND CONTROL WILL VARY DEPENDING ON JOB SPECIFICATIONS & CONDITIONS.
4. DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. CONSULT FACTORY FOR CERTIFIED DIMENSIONS.
5. ALL FLANGES ARE 150# UNLESS OTHERWISE NOTED, FLANGES TO STRADDLE CENTER LINE.



PLAN VIEW



REAR VIEW

LEFT SIDE VIEW

FRONT VIEW

1. L.W.C.O./PUMP CONTROL	6. JACKET ACCESS PANELS	11. HEIGHT OVER JACKET	16.
2. BARO DRAFT CONTROL (LOOSE)	7.	12. HEIGHT OVER SUPPLY	17.
3. RELIEF VALVE'S	8. CLNOUT./INSP. OPNG.-1 1/2"NPT	13. FEEDWATER CONN 2" NPT	18.
4. PRESSURE GAUGE	9. ELEC. ENCLOSURE-	14. LIFTING LUGS	19.
5. SURFACE BLOWOFF 1" NPT	10. PRESSURTROLS	15. PROBE TYPE AUX L.W.C.O.-	20.

BOILER MODEL		K350	K400	K450	K500	K550	K600	K650
A-LENGTH OVER JACKET		107 1/4" (272.42)	117" (297.13)	129 3/4" (329.57)	142 1/2" (361.95)	155 1/2" (394.97)	165" (419.10)	178" (452.12)
B-FLUE LOCATION		54 1/8" (137.48)	59" (149.86)	65 3/8" (166.05)	71 3/4" (182.25)	78 1/4" (198.76)	83" (210.82)	89 1/2" (277.33)
C-FLUE DIAMETER		20" (50.8)	24" (60.96)	24" (60.96)	24" (60.96)	24" (60.96)	24" (60.96)	24" (60.96)
D-LENGTH OVER BASE		123 1/4" (313.06)	133" (337.82)	145 3/4" (370.21)	158 1/2" (402.59)	171 1/2" (435.61)	181" (459.74)	194" (492.76)
F-HEIGHT TO BAROMETRIC		106 3/4" (271.15)	110 3/4" (281.31)	110 3/4" (281.31)	110 3/4" (281.31)	110 3/4" (281.31)	110 3/4" (281.31)	110 3/4" (281.31)
G-SUPPLY NOZZLE	15 PSI	6" FLG (15.24)	8" FLG (20.32)	8" FLG (20.32)	8" FLG (20.32)	10" FLG (25.4)	10" FLG (25.4)	10" FLG (25.4)
	150 PSI	4" FLG (10.16)	6" FLG (15.24)	6" FLG (15.24)	6" FLG (15.24)	6" FLG (15.24)	6" FLG (15.24)	6" FLG (15.24)
X-BLOWDOWN CONN	15 PSI	1 1/2" (3.81)	1 1/2" (3.81)	1 1/2" (3.81)	1 1/2" (3.81)	2" (5.08)	2" (5.08)	2" (5.08)
	150 PSI	1" (2.54)	1" (2.54)	1" (2.54)	1" (2.54)	1" (2.54)	1" (2.54)	1" (2.54)

BRYAN BOILERS

783 N CHILI AVENUE
PERU, INDIANA 46970

ORDER NO.:
ORDER REV. NO.:
FORM NO.: 1605

Bryan Boilers

K SERIES ATMOSPHERIC GAS STEAM BOILERS

Form # >> 1605
Date >> 5/11/2004

BOILER MODEL		K350	K400	K450	K500	K550	K600	K650
INPUT	MBH	3,500	4,000	4,500	5,000	5,500	6,000	6,500
	(KW)	1,025.5	1,172.0	1,318.5	1,465.0	1,611.5	1,758.0	1,904.5
OUTPUT*	MBH	2,800	3,200	3,600	4,000	4,400	4,800	5,200
	(KW)	820.4	937.6	1,054.8	1,172.0	1,289.2	1,406.4	1,523.6
BOILER HORSEPOWER	HP	84	96	108	120	131	143	155
	(KW)	823	941	1,058	1,176	1,284	1,401	1,519
TUBE DIAMETER	INCHES	1.50	1.50	1.50	1.50	1.50	1.50	1.50
	(CM)	3.81	3.81	3.81	3.81	3.81	3.81	3.81
NUMBER OF TUBES		53	59	67	75	83	89	97
PRESSURE VESSEL VOLUME								
	GAL	301	330	368	406	444	473	511
	(L)	1,139.3	1,249.1	1,392.9	1,536.7	1,680.5	1,790.3	1,934.1
HEATING SURFACE	SQ FT	424	480	540	600	661	717	777
	(SQ M)	39.4	44.6	50.2	55.8	61.4	66.6	72.2
STEAM OUTPUT*	LBS/HR	2,886	3,298	3,711	4,123	4,535	4,947	5,360
	(KG/HR)	1,309.1	1,496.0	1,683.3	1,870.2	2,057.1	2,244.0	2,431.3
OPERATING WEIGHT	LBS	8,310	9,165	10,090	11,015	11,945	12,795	13,720
	(KG)	3,769.4	4,157.2	4,576.8	4,996.4	5,418.3	5,803.8	6,223.4
SHIPPING WEIGHT	LBS	5,800	6,410	7,020	7,630	8,240	8,850	9,460
	(KG)	2,630.9	2,907.6	3,184.3	3,461.0	3,737.7	4,014.4	4,291.1
RELIEF VALVE TYPICAL - 15 PSIG (103.4 KPA)								
QUANTITY		(2) 12-205	(2) 12-205	(2) 12-206	(2) 12-206	(2) 12-206	(3) 12-205	(3) 12-206
SIZE	INCHES	2 x 2	2 x 2	2½ x 2½	2½ x 2½	2½ x 2½	2 x 2	2½ x 2½
	(CM)	5.08 x 5.08	5.08 x 5.08	6.35 x 6.35	6.35 x 6.35	6.35 x 6.35	5.08 x 5.08	6.35 x 6.35
CAPACITY-TOTAL	MBH	5,000	5,000	7,058	7,058	7,058	7,500	10,587
	(KW)	1,465.0	1,465.0	2,068.0	2,068.0	2,068.0	2,197.5	3,102.0
RELIEF VALVE TYPICAL - 150 PSIG (1,034.2 KPA)								
QUANTITY		(1) 6021GF	(1) 6021GF	(1) 6021ED (1) 6021FE	(2) 6021FE	(2) 6021FE	(1) 6021FE (1) 6021GF	(1) 6021FE (1) 6021GF
SIZE	INCHES	1¼ x 1½	1¼ x 1½	3/4 x 1 1 x 1¼	1 x 1¼	1 x 1¼	1 x 1¼ 1¼ x 1½	1 x 1¼ 1¼ x 1½
	(CM)	3.17 x 3.81	3.17 x 3.81	1.90 x 2.54 2.54 x 3.17	2.54 x 3.17	2.54 x 3.17	2.54 x 3.17 3.17 x 3.81	2.54 x 3.17 3.17 x 3.81
CAPACITY-TOTAL	MBH	4,234	4,234	4,234	5,166	5,166	6,817	6,817
	(KW)	1,240.6	1,240.6	1,240.6	1,513.6	1,513.6	1,997.4	1,997.4

* Output based on nominal 80% of Input. Actual combustion efficiencies may be higher.